PTO/SB/05 (08-03)
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UTILITY	
PATENT APPLICATION	
TRANSMITTAL	

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attomey Docket No.	3303-23
First Inventor	Chen, C. J., et al.
Title	Surface Micromachined Mechanical Micropumps and Fluid Shear Mixing, Lysing, and Separation Microsystems
Express Mail I ahel No	EV 346751137 US

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See MPEP o		TON ELEMENTS ming utility patent application contents.	ADDRESS TO:	Commiss P.O. Box	Patent Appl sioner for Pat 1450 ia VA 22313	tents		
2. Application See 37 3. Specification (preferring - Description - Crossing - Statering - Referring - Backgg - Brief Septiments	it an original and a ant claims small 7 CFR 1.27. ication red arrangement seriptive title of the ins Reference to Relament Regarding Ference to sequence I computer program liground of the Invensummary of the Invense Description of the Eled Description	[Total Pages 28] set forth below) vention ated Applications ed sponsored R & D listing, a table, listing appendix ntion vention	8. Nucleotide and (if applicable, al a. Computer b. Special ii	Il necessary) puter Readable cification Seque	endix) Sequence Form (CR ence Listing CD-R (2 cop	e Submission RF) g on:	22141 U.S. PT 10/697412	
- Abstra 4.	act of the Disclosuring(s) (35 U.S.C. claration why executed (or py from a prior appropriate of the prior appropriate of	[Total Sheets] [Total Sheets] iginal or copy) pplication (37 CFR 1.63(d)) visional with Box 18 completed) INVENTOR(S) attached deleting inventor(s) application, see 37 CFR	10. 37 CFR 3 (when the English T 12. Information Statemer 13. Return R (Should It 15. Certified (if foreign (b)(2)(B)) or its equal 17. Other:	3.73(b) Stateminere is an assignation Docion Disclosure nt (IDS)/PTO-1-ary Amendment Receipt Postcare be specifically in Copy of Priority in priority is clair ication Request (i). Applicant muivalent.	ent [1] cument (if a 449 t d (MPEP 5 itemized) y Documer med) t under 35 cust attach	Copies of IDS Citations 503) nt(s) U.S.C. 122 form PTO/SB/35		
Continuation Divisional Continuation-in-part (CIP) of prior application No.: Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.								
-			DENCE ADDRESS					
Custom	ner Number:	30448	O	R Corre	spondence	e address below		
Name	Michael K, Dixo	ın						
Address	Akerman Sente	rfitt						
City	_	Avenue, 4th Floor	State FI	7in C	Zip Code 33401			
Country	West Palm Bea		<u></u>		Fax	133401		
	United States		.			X 561.659.6313		
Name (Print/Type) Michael K. Dixon Registration No. (Attorney/Agent) 46,665								
Signature		1/11			Date	October 30, 2003	3	

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13049 U.S. PTO

PTO/SB/17 (10-03) Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

October 30, 2003

Date

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Complete if Known **FEE TRANSMITTAL** Filed Herewith Application Number for FY 2004 Filing Date Chen, C. J. First Named Inventor Effective 10/01/2003. Patent fees are subject to annual revision. Unassigned **Examiner Name** Applicant claims small entity status. See 37 CFR 1.27 Unassigned Art Unit (\$) 502.00 TOTAL AMOUNT OF PAYMENT Attorney Docket No. 3303-23

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check Credit card Money Other None	3. ADDITIONAL FEES						
Order D Order	Large Entity Small Entity						
Deposit Co. 0.0.5.4	Fee Fee Fee Fee Fee Description						
Account 50-0951	Code (\$) Code (\$) Fee 1051 130 2051 65 Surcharge - late filing fee or oath	e Paid					
Number Deposit A. C. A. S.	1052 50 2052 25 Surcharge - late provisional filing fee or						
Account Name Akerman Senterfitt	cover sheet	-					
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification						
Charge fee(s) indicated below							
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action						
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805 1,840* 1805 1,840* Requesting publication of SIR after Examiner action						
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month						
1. BASIC FILING FEE	1252 420 2252 210 Extension for reply within second month						
Large Entity Small Entity	1253 950 2253 475 Extension for reply within third month						
Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254 1,480 2254 740 Extension for reply within fourth month						
1001 770 2001 385 Hilliby filing foo	1255 2,010 2255 1,005 Extension for reply within fifth month						
1002 340 2002 170 Design filing fee 385.00	1401 330 2401 165 Notice of Appeal						
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal						
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing						
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding						
SUBTOTAL (1) (\$) 385.00	1452 110 2452 55 Petition to revive - unavoidable						
	1453 1,330 2453 665 Petition to revive - unintentional						
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,330 2501 665 Utility issue ree (or reissue)						
Extra Claims below Fee Paid Total Claims 33 -20** = 13 x 9 = 117	d 1502 480 2502 240 Design issue fee						
Total Claims 33 -20** = 13 x 9 = 117	1503 640 2503 320 Plant issue fee						
Claims - 3 - 3 - 5 - 3 - 5 - 5 - 5 - 5 - 5 - 5	1460 130 1460 130 Petitions to the Commissioner						
<u> </u>	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)	—					
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt						
Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)						
1202 18 2202 9 Claims in excess of 20	1809 770 2809 385 Filing a submission after final rejection						
1201 86 2201 43 Independent claims in excess of 3	(37 CFR 1.129(a))						
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1 1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))						
over original patent	1801 770 2801 385 Request for Continued Examination (RCE)						
1205 18 2205 9 "Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application						
· · · · · · · · · · · · · · · · · · ·	Other fee (specify)						
SUBTOTAL (2) (\$\) 117.00 **or number previously paid, if greater; For Reissues, see above	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)						
SUBMITTED BY (Complete (if applicable))							
Name (Print/Type) Michael K. Dixon Registration No. 46,665 Telephone 561,653,5000							

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Michael K. Dixon

Signature